

REMARKS

This Amendment is in response to the Office Action dated **January 12, 2004**. In the Office Action the Examiner raised objections to the drawings, particularly with respect to FIGS. 3, 31, 32, 41, 53, and 69.

Applicant has amended the drawings herein. The amendments to the drawings are as follows:

IN THE DRAWINGS:

Attached replacement sheet 2 includes changes to FIG. 3. Replacement sheet 2 includes FIGS. 3, 5, and 6, which replaces original sheet 2 including FIGS. 3, 5, and 6. In FIG. 3, previously omitted element 90 has been added.

Replacement sheet 5 includes changes to FIG. 11A. This sheet includes FIG. 11A and replaces original drawing sheet 5 including FIG. 11A. In FIG. 11A, the previous identifier Q0 has been replaced with Q10 as identified by the Examiner.

The attached replacement sheet of drawings number 8 includes changes to FIG. 15. This sheet includes FIGS. 13, 14, and 15, which replaces original sheet 8 including FIGS. 13, 14, and 15. In FIG. 15, previously omitted element 30 has been added.

The attached replacement sheet of drawings number 13 includes changes to FIGS. 31 and 32. Replacement sheet 13 includes FIGS. 31 and 32, and replaces the original drawing sheet number 13 including FIGS. 31 and 32. In FIG. 31, previously omitted element 480 has been added. In FIG. 32, previously element 480 has been added.

The attached replacement sheet of drawings number 17 includes changes to FIG. 41. Replacement sheet of drawings 17 includes FIGS. 40 and 41 and replaces the original drawing sheet number 17 which includes FIGS. 40 and 41. In FIG. 41, previously omitted element 440 has been added.

The attached replacement sheet of drawings number 20 includes changes to FIG. 47. Replacement sheet 20 includes FIGS. 47 and 50 which replaces original sheet of drawings number 20 including FIGS. 47 and 50. In FIG. 47, previously omitted element number 520 has been added.

The attached replacement sheet of drawings number 21 includes changes to FIG.

22. Replacement sheet 21 includes FIGS. 51 and 52, and replaces original sheet of drawings number 21 including FIGS. 51 and 52. In FIG. 52, descriptive legends related to the “controller”, “light support”, “module”, and “LED light sources”, have been added to comply with the suggestions of the Examiner.

The attached replacement sheet of drawings number 22 includes changes to FIGS. 53 and 53. Replacement sheet 22 includes FIGS. 53 and 54, which replaces the original drawing sheet number 22 including FIGS. 53 and 54. In FIG. 53, the connecting line between box 50 and box 606 and the connecting line between box 50 and 602 has been corrected. In addition, descriptive legends related to the “controller”, “light support”, “module”, and “LED light sources”, have been added to comply with the suggestions of the Examiner.

In FIG. 54, the descriptive legends directed to the “controller”, “light support”, “module”, “visible light signal display surface”, and “LED light sources”, has been added to comply with the suggestions of the examiner.

The attached replacement sheet of drawings number 23 includes changes to FIG. 55. Replacement sheet number 23 which includes FIG. 55 replaces the original sheet 23 which included FIG. 55. In FIG. 55, the descriptive legends directed to the “external controller”, “controller”, “light support”, “module”, “visible light signal display surface”, and “LED light sources”, has been added to comply with the suggestions of the Examiner.

The attached replacement sheet of drawings number 27 includes changes to FIG. 65. Replacement sheet of drawings number 27 includes FIGS. 63, 64, and 65, which replaces the original sheet number 27 including FIGS. 63, 64, and 65. In FIG. 65, previously omitted element numbers 806 and 780 have been added.

The attached replacement sheet of drawings number 28 includes changes to FIG. 66. Replacement sheet number 28 includes FIG. 66 and replaces the original sheet of drawings 28 including FIG. 66. In FIG. 66, previously omitted element numbers 800, 808, and 700 have been added.

The attached replacement sheet of drawings number 29 includes changes to FIGS. 67 and 67A. Replacement sheet number 29 includes FIGS. 67 and 67A and replaces the original sheet number 29 including FIGS. 67 and 67A. In FIG. 67, element 822 has been changed to 823; element 828 has been changed to element 829; element 824 has been changed to element 825;

and element 826 has been changed to element 827.

In FIG. 67A, element number 826 has been changed to element number 827; element 824 has been changed to element 825; element 822 has been changed to element number 823; element 828 has been changed to element 829; element 800 has been changed to element 801; and previously omitted element numbers 835, and 978, have been added.

The attached replacement sheet of drawings number 30 includes changes to FIGS. 68, 69, and 70. Replacement sheet of drawings number 30 includes FIGS. 68, 69, and 70, and replaces original sheet of drawings number 30 including FIGS. 68, 69, and 70. In FIG. 68, element number 832 has been changed to element number 833; element number 834 has been changed to element number 835; element number 814 has been changed to element number 815; element 820 has been changed to element number 821; element 836 has been changed to element 837; element 824 has been changed to element 825; and element number 826 has been changed to element number 827.

In FIG. 69, cross-section line 71-71 has been changed to cross-section line 70-70; element number 842 has been changed to element number 843; element number 836 has been changed to element number 837; element number 838 has been changed to element number 839; and element number 840 has been changed to element number 841.

In FIG. 70, element number 812 has been changed to element number 813; element number 844 has been changed to element number 845; element number 846 has been changed to element number 847; element number 826 has been changed to element number 827; element number 824 has been changed to element number 825; element 830 has been changed to element number 831; element number 828 has been changed to element number 829; element number 836 has been changed to element number 837; and element number 822 has been changed to element number 823.

The attached replacement sheet of drawings number 31 includes changes to FIG. 71. Replacement sheet 31 includes FIG. 71 and replaces the original sheet 31 including FIG. 71. In FIG. 71, element number 826 has been changed to element number 827; previously omitted element number 880 has been added; element number 822 has been changed to element number 823; element number 830 has been changed to element number 831; element number 824 has been changed to element number 825; element number 828 has been changed to element number

829; element number 802 has been changed to element number 803; element number 818 has been changed to element number 819; previously omitted element number 896 has been added; and previously omitted light and element number 803 has been added.

The attached replacement sheet number 32 includes changes to FIG. 73. Replacement sheet 32 includes FIG. 73 which replaces original sheet 32 including FIG. 73. In FIG. 73, element number 822 has been changed to element number 823; element number 828 has been changed to element number 829; element number 802 has been changed to element number 803; element 818 has been changed to element 819; element 814 has been changed to element number 815; element number 830 has been changed to element number 831; and element number 820 has been changed to element number 821.

The attached replacement sheet of drawings number 33 includes changes to FIG. 74. Replacement sheet 33 which includes FIG. 74 replaces original sheet 33 which includes FIG. 74. In FIG. 74, element number 914 has been changed to element number 934; element number 822 has been changed to element number 823; element number 830 has been changed to element number 831; element number 820 has been changed to element number 821; element number 802 has been changed to element number 803; element number 818 has been changed to element number 819; element number 800 has been changed to element number 801; element number 814 has been changed to element number 815; element number 826 has been changed to element number 827; and element number 828 has been changed to element number 829.

The attached replacement sheet of drawings number 34 includes changes to FIGS. 75 and 76. The replacement sheet 34 which includes FIGS. 75 and 76 replaces original sheet 34 including FIGS. 75 and 76. In FIG. 75, element number 818 has been changed to element number 819; element number 802 has been changed to element number 803; and previously omitted element number 819 has been added.

In FIG. 76, element number 824 has been changed to element number 825; element number 830 has been changed to element number 831; element number 826 has been changed to element number 827; element number 828 has been changed to element number 829; and element number 822 has been changed to element number 823.

The attached replacement sheet of drawings number 35 includes changes to FIG. 77. Replacement sheet 35 includes FIG. 77 which replaces original sheet 35 including FIG. 77.

In FIG. 77, element number 822 has been changed to element number 823; element number 802 has been changed to element number 803; element number 814 has been changed to element number 815; element 818 has been changed to element number 819; and element 820 has been changed to element number 821.

The attached replacement sheet of drawings number 36 includes changes to FIGS. 78 and 79. Replacement sheet of drawings 36 includes FIGS. 78 and 79 which replaces original sheet 36 including FIGS. 78 and 79. In FIG. 78, element 814 has been changed to element number 815; element 802 has been changed to element 803; previously omitted element number 829 has been added; and element number 818 has been changed to element number 819.

In FIG. 79, element number 818 has been changed to element number 819; element number 802 has been changed to element number 803; and previously omitted element number 829 has been added.

The attached replacement sheet of drawings number 37 includes changes to FIG. 80. Replacement sheet 37 includes FIG. 80 which replaces original drawing sheet 37 including FIG. 80. In FIG. 80, element number 802 has been changed to element number 803; and element number 822 has been changed to element number 823.

The attached replacement sheet of drawings number 38 includes changes to FIGS. 72 and 81. The replacement sheet of drawings 38 which includes FIGS. 72 and 81 replaces original sheet of drawings number 38 including FIGS. 72 and 81. In FIG. 72, element number 824 has been changed to element number 825; element number 826 has been changed to element number 827; and element number 822 has been changed to element number 823.

In FIG. 81, element number 862 has been changed to element number 863; element number 874 has been changed to element number 875; previously omitted element number 849 has been added; element number 820 has been changed to element number 821; element number 802 has been changed to element number 803; element number 818 has been changed to element number 819; element number 872 has been changed to element number 873; element number 864 has been changed to element number 865; element number 814 has been changed to element number 815; element number 866 has been changed to element number 867; element number 868 has been changed to element number 869; and element number 870 has been changed to element number 871.

The attached replacement sheet of drawings number 39 includes changes to FIGS. 82 and 83. Replacement sheet of drawing 39 which includes FIGS. 82 and 83 replaces the original sheet of drawings number 39 including FIGS. 82 and 83.

In FIG. 82, element number 848 has been changed to element number 1042; element number 862 has been changed to element number 863; element number 866 has been changed to element number 867; element number 868 has been changed to element number 869; element number 820 has been changed to element number 821; element 830 has been changed to element number 831; element number 802 has been changed to element number 803; element number 806 has been changed to element number 807; element number 814 has been changed to element number 815; element number 818 has been changed to element number 819; element number 810 has been changed to element number 811; and element number 850 has been changed to element number 851.

In FIG. 83, element number 802 has been changed to element number 803; element number 810 has been changed to element number 811; element number 806 has been changed to element number 807; element number 804 has been changed to element number 805; element number 808 has been changed to element number 809; element number 814 has been changed to element number 815; element number 820 has been changed to element number 821; element number 818 has been changed to element number 819; and element number 830 has been changed to element number 831.

The attached replacement sheet of drawings number 40 includes FIGS. 84 and 85. Replacement sheet of drawings 40 which includes FIGS. 84 and 85, replaces the original sheet of drawings number 40 including FIGS. 84 and 85. In FIG. 85, element identifier 860 has been changed to element number 861; element number 866 has been changed to element number 867; element number 868 has been changed to element number 869; element number 842 has been changed to element number 843; and element number 848 has been changed to element number 849.

Additional sheet of drawings number 41 includes added FIGS. 67B including previously omitted element numbers 1040; 801; 815; and 819.

Additional sheet of drawings 41 includes added FIG. 86, which includes previously omitted element number 803.1a; 803.1; 803.2; 803.3; 815; 1040; 803.3a; and 803.2a.

Additional sheet of drawings number 42 includes FIGS. 87A and 87B. FIG. 87A includes previously omitted elements 815; 1040; 803.1a; 803.1b; and 803.1c.

FIG. 87B includes previously omitted element numbers 815; 1040; 803.2a; 803.2b; and 803.2c.

Additional sheet of drawings number 43 includes FIG. 87C. FIG. 87C includes previously omitted element numbers 815; 1040; 803.3a; 803.3b; and 803.3c.

Replacement sheet of drawings number 44, 45, and 46, include FIGS. 88A, 88B, and 88C, which represent a block diagram provided pursuant to the request of the Examiner.

The support in the specification for FIGS. 86, 87A, 87B, and 87C, are identified in at least the following portions of the specification:

Page 17, lines 8-11; page 19, lines 30-32; pages 20 and 21, lines 32-4; page 21, lines 5-7; pages 13-14, lines 31-10; page 13, lines 14-19; page 21, lines 29-32; page 23, lines 9-13; page 23, lines 21-24; page 26, lines 6-9; page 26, lines 27-29; page 27, lines 11-13; page 33, lines 21-32; page 34, lines 1-13; page 37, lines 18-20; page 86, lines 5-12; page 86, lines 25-32; page 87, lines 1-5; page 87, lines 6-11; page 90, lines 6-17; page 90, lines 26-33; page 91, lines 1-12; page 102, lines 10-16; page 103, lines 19-24; page 103, lines 25-32; page 104, lines 1-8; page 104, lines 15-23; and page 106, lines 25-30.

The support in the specification for FIGS. 88A, 88B, and 88C, are found in the specification at least in the following locations:

Page 17, lines 1-14; page 17, lines 26-32; page 18, lines 1-15; page 19, lines 6-26; page 22, lines 5-8; page 89, lines 21-27; page 89, lines 28-29; page 90, lines 6-26; page 91, lines 17-32; page 92, lines 1-8; page 92, lines 29-32; page 93, lines 1-7; page 93, lines 24-30; and page 98, lines 6-25.

Reference numeral 90 has been added to FIG. 3; reference numeral 480 has also been added to FIGS. 31 and 32; reference numeral 440 has been added to FIG. 41; a line connecting blocks 50 and 602 has been added to FIG. 53; and in FIG. 69 reference numeral 71 has been changed to reference numeral 70. Applicant believes that the changes to the drawings identified herein resolve the objections of the Examiner to the drawings as identified within paragraph 1.

Within paragraph 2 of the Office Action, the Examiner has objected to the

drawings based upon reference characters number 810, 824, 864, 866, and 868. Applicant has amended FIGS. 63, 66, 67, 81, 82, and pages of the specification 74, 75, 83, 88, 90, and 95, to correct the duplicate use of reference numerals. Applicant believes that the amendments to the drawings and specification herein resolves the objection the drawings as raised by the Examiner within paragraph 2.

In paragraph 3 of the Office Action, the Examiner has raised an objection to the drawings as related to the circuit board, "Q10", reference numeral 896, reference numeral 914, and reference numeral 922. Applicant has amended the drawings of FIGS. herein; reference numerals, and specification which Applicant believes overcomes the Examiner's objection to the drawings as identified within paragraph 3 of the Office action.

In the Office Action, the Examiner objected to FIGS. 52-55 as lacking "descriptive legends". Applicant has amended FIGS. 52-55 to include descriptive legends as suggested by the Examiner. Applicant believes that the amendments to FIGS. 52-55 overcome the objection as raised by the Examiner.

In paragraph 5 of the Office Action, the Examiner indicated that certain embodiments including the multiple controller such as the first controller, second controller, and third controller, were not shown in the form of a schematic or block diagram which would be somewhat analogous to FIGS. 11A-11C and which would depict the controllers and the communication signals therebetween. The Examiner proposed a drawing correction to resolve this issue. Applicant has provided herein drawing FIGS. 88A, 88B, and 88C, to comply with the suggestions of the Examiner. Applicant has previously identified the support in the specification for FIGS. 88A-88C. Applicant asserts that no new matter has been added.

The Examiner in paragraph 6 of the Office Action identified typographical errors within the specification. Applicant has reviewed the specification and has amended the same in order to correct the typographical errors as identified by the Examiner. Applicant believes that the amendments to the specification herein overcome the objections as identified by the Examiner within paragraph 6 of the Office Action.

The Examiner in paragraph 7 of the Office Action identified the lack of reference to specific drawing figures within the specification. Applicant has amended the specification to include reference to the drawing figure numbers as suggested by the Examiner. Applicant

believes that the amendments to the specification herein address the matters as identified by the Examiner within paragraph 7 of the Office Action.

The Examiner objected to claims 16 and 34 related to a typographical error and the absence of a period at the end of claim 34. Applicant has corrected the typographical error in claim 16 and has included the period at the end of claim 34. Applicant believes that the amendments to the claims herein resolve the objections as raised by the Examiner. Applicant asserts that the correction of the typographical error and the inclusion of a period does not affect the scope of the claims as previously drafted and presented for consideration.

The Examiner next rejected claim 1, pursuant to 35 U.S.C. §112, asserting that the claim was indefinite and that the Examiner was uncertain as to what was meant by creating a second light signal "within" a first light signal. Applicant has amended claim 1 herein which Applicant believes resolves the rejection pursuant to 35 U.S.C. §112. Applicant has amended the language of claim 1. Applicant has amended the language of claim 1 which Applicant believes does not alter the scope of the claim as originally drafted, in that the Applicant has altered the language of the claim to alternatively describe the scope of the subject matter as originally claimed.

Applicant wishes to thank the Examiner for the indication of allowable subject matter herein.

In view of the above, Applicant believes the present application with claims 1-34 is in condition for allowance. Applicant believes that the amendments to the specification and drawings herein fully comply with the requirements identified by the Examiner within the Office Action dated January 12, 2004. Reconsideration of the drawings and specification as amended and the claims as amended herein is respectfully requested. Applicant contends that the above-entitled application is now in condition for allowance. Applicant respectfully requests reconsideration of the claims, specification, and drawings and issuance of a notice of allowance herein.

An extension of time is required to make this response timely. A Petition for a one month extension of time is enclosed. If a further extension of time is required and no separate petition is enclosed, Applicant hereby petitions for an extension of time sufficient to make the response timely. In the event that this response requires the payment of government


fees and payment is not enclosed, please charge Deposit Account No. 22-0350.

In the event that the Examiner has any questions concerning the enclosed amendment and remarks, the Examiner is cordially invited to contact the undersigned by telephone, facsimile, and/or E-Mail to move this to case to early allowance.

Respectfully submitted,

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